
Directions for Administering the K12 Science Pre- and Post-Tests

The K¹² Science Pre- and Post-Tests assess the knowledge and skills taught in the K¹² Classroom Science Program. The pre-tests will be used to assess students' prior knowledge of the concepts in a module before the module has been taught. The post-tests will be used to assess students' mastery of the concepts in module immediately *after* it has been taught.

The only materials necessary to complete each test are a pencil and an eraser. The tests are designed to be un-timed, but you will want to allow approximately 45 minutes for students to take a test.

Because this is not a reading test, you may use your discretion on whether or not to read each question out loud to the class or have them work silently at their own pace.

Follow the directions below to administer each test.

(Pre-Test)

SAY We are getting ready to start a new science unit on [fill in Module topic]. Today's activity will help me find out how much you already know about the science unit we are about to start. It's okay if you don't know the answer to a question; simply choose the one you think is correct.

(Post-Test)

SAY Today you will be doing an activity to help me find out how much you learned about the science unit we just completed. It's important that you do your best on this activity.

DO Pass out the test packets, one per student.

SAY At the top of page 1, find the space labeled "Name." (Point) Write your first and last name on the line. Now find the space labeled "Date." (Point) Write the date on the line. (You may need to model how to write the date.)

DO Check to make sure that students have written their names and the date on the papers.

SAY Look at the directions at the top of page 1. Read them to yourself as I read them aloud. "Directions: Read each question carefully and choose the best answer. Then circle the letter beside the answer you have chosen." Let's practice this.

DO Write the following on the board:

What color is a banana?

- A. red
- B. blue
- C. yellow
- D. purple

SAY Read the question as I read it aloud. "What color is a banana? (A) red ... (B) blue ... (C) yellow ... (D) purple." (Pause) Which is the best answer?

Pause for replies.

SAY The best answer is "C, yellow." (Point to the letter C.) To answer this question, we would circle the letter C because it is beside the best answer. (Circle the letter C.)

SAY Does anyone have a question?

(Answer all questions.)

SAY In a moment you will begin this activity. Please work silently so everyone has a chance to complete the work. If you have a question, please raise your hand and I will walk over to you. When you have finished all the questions, please turn your pages over on your desk and I will come by and collect them. After I have collected yours, you may read or sit quietly at your desk.

Does anyone have a question?

(Answer all questions.)

SAY Now it is time to begin the activity. You may begin.

DO Monitor students to make sure they are circling the letters beside their answer choices. If you are reading the questions, continue to ensure students are doing this. When students have finished, walk over and collect the test packets. You will want to allow approximately 45 minutes to complete this activity, although some students may take more or less time.

Use the answer keys to score the tests. It is K12's policy that a score of 80% or greater determines mastery. You can use the chart below to determine 80% for each test:

Module	Total Number of Items (both pre– and post)	Score for 80% Mastery
Balancing and Weighing	15	12
Wonders of Weather	22	18
A Butterfly's Life	18	14
Rocks and Minerals	17	14
Sounds All Around	19	15
See Seeds Grow	20	16